

SEQUENCE LISTING

<110> Panganiban, Antonito  
Callahan, Mark A.

<120> Method of Identifying Modulators of HIV-1 VPU and GAG  
Interaction with U Binding Protein (UBP)

<130> 960296.95335

<140> 09/301,978  
<141> 1999-04-29

<150> 60/083,567  
<151> 1998-04-30

<160> 29

<170> PatentIn Ver. 2.1

<210> 1  
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<213> Homo sapiens

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<222> (1514)  
<223> n = any nucleotide.

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ctgggttcat gagcatggct tggaaacctaa tgaacaatcc ccagattcag cagtcatgt 780  
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 <213> Homo sapiens

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 Glu Val Ala Ile Gln Cys Leu Glu Thr Ala Phe Gly Val Thr Val Glu  
 35 40 45  
 Asp Ser Asp Leu Ala Leu Pro Gln Thr Leu Pro Glu Ile Phe Glu Ala  
 50 55 60  
 Ala Ala Thr Gly Lys Glu Met Pro Gln Asp Leu Arg Ser Pro Ala Arg  
 65 70 75 80

Thr Pro Pro Ser Glu Glu Asp Ser Ala Glu Ala Glu Arg Leu Lys Thr  
 85 90 95  
 Glu Gly Asn Glu Gln Met Lys Val Glu Asn Phe Glu Ala Ala Val His  
 100 105 110  
 Phe Tyr Gly Lys Ala Ile Glu Leu Asn Pro Ala Asn Ala Val Tyr Phe  
 115 120 125  
 Cys Asn Arg Ala Ala Ala Tyr Ser Lys Leu Gly Asn Tyr Ala Gly Ala  
 130 135 140  
 Val Gln Asp Cys Glu Arg Ala Ile Cys Ile Asp Pro Ala Tyr Ser Lys  
 145 150 155 160  
 Ala Tyr Gly Arg Met Gly Leu Ala Leu Ser Ser Leu Asn Lys His Val  
 165 170 175  
 Glu Ala Val Ala Tyr Tyr Lys Lys Ala Leu Glu Leu Asp Pro Asp Asn  
 180 185 190  
 Glu Thr Tyr Lys Ser Asn Leu Lys Ile Ala Glu Leu Lys Leu Arg Glu  
 195 200 205  
 Ala Pro Ser Pro Thr Gly Gly Val Gly Ser Phe Asp Ile Ala Gly Leu  
 210 215 220  
 Leu Asn Asn Pro Gly Phe Met Ser Met Ala Ser Asn Leu Met Asn Asn  
 225 230 235 240  
 Pro Gln Ile Gln Gln Leu Met Ser Gly Met Ile Ser Gly Gly Asn Asn  
 245 250 255  
 Pro Leu Gly Thr Pro Gly Thr Ser Pro Ser Gln Asn Asp Leu Ala Ser  
 260 265 270  
 Leu Ile Gln Ala Gly Gln Gln Phe Ala Gln Gln Met Gln Gln Asn  
 275 280 285  
 Pro Glu Leu Ile Glu Gln Leu Arg Ser Gln Ser Gly Val Gly Arg Pro  
 290 295 300  
 Ala Pro Ala Thr Thr Ser Arg Ser Asp Ala Ala Cys Ser Arg Cys  
 305 310 315 320  
 Asp Arg Val Leu Pro Trp Pro Thr Arg Arg Lys Pro Ser Gly Cys Leu  
 325 330 335

Pro Leu Pro Pro Val Gly Leu Pro Glu Arg Gly Glu Glu Arg Asp Leu  
340 345 350

Gly Pro Ala Cys Gln Asp Gly Phe Ser Pro Phe Ile Ser Ala Leu Leu  
355 360 365

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<211> 23

<212> DNA

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<223> Description of Artificial Sequence:Oligonucleotide  
Primer

<400> 3

23

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<210> 4

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<212> DNA

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Primer

<400> 4

21

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<210> 5

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide  
Primer

<400> 5

31

cgggatccgg tgcgagagcg tcggattaa g

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21

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27

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Primer

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<210> 10  
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Consensus Sequence

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<223> Can be an Alanine as well.

<220>  
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<220>  
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Xaa Xaa

<210> 12

<211> 34

<212> PRT

<213> Human Immunodeficiency Virus Type 1

<220>

<221> PEPTIDE

<222> (1)..(34)

<223> TPR1

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20 25 30

Asp Leu

<210> 13  
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<212> PRT  
<213> C. elegans

<220>  
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<223> TPR1

<400> 13  
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Ala Ile Gln Cys Leu Glu His Ser Phe Gly Leu Asp Asp Ala Ser Tyr  
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Ala Phe

<210> 14  
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<212> PRT  
<213> S. cerevisiae

<220>  
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<223> TPR1

<400> 14  
Val Glu Lys Lys Glu Ile Ser Glu Asp Gly Ala Asp Ser Leu Asn Val  
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Ala Met Asp Cys Ile Ser Glu Ala Phe Gly Phe Glu Arg Glu Ala Val  
20 25 30

Ser Gly

<210> 15  
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<212> PRT  
<213> Human Immunodeficiency Virus Type 1

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Leu Lys Thr Glu Gly Asn Glu Gln Met Lys Val Glu Asn Phe Glu Ala  
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Ala Val His Phe Tyr Gly Lys Ala Ile Glu Leu Asn Pro Ala Asn Ala  
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Val Tyr

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Ala Val Gln Lys Tyr Asn Ala Ala Ile Lys Leu Asn Arg Asp Pro Val  
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Tyr

<210> 17

10

<211> 34  
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<213> *S. cerevisiae*

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Ile Tyr

<210> 18  
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<212> PRT  
<213> *Homo sapiens*

<220>  
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Ala Ile Lys Phe Tyr Ser Gln Ala Ile Glu Leu Asn Pro Ser Asn Ala  
20 25 30

Ile Tyr

<210> 19  
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<213> *Homo sapiens*

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<222> (1)..(34)

<223> TPR1

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1 5 10 15

Ala Ile Lys Lys Tyr Ala Glu Val Leu Arg Tyr Val Asp Ser Ser Lys  
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Ala Val

<210> 20

<211> 34

<212> PRT

<213> Homo sapiens

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<222> (1)..(34)

<223> TPR3

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Ala Val Gln Asp Cys Glu Arg Ala Ile Cys Ile Asp Pro Ala Tyr Ser  
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Lys Ala

<210> 21

<211> 34

<212> PRT

<213> Homo sapiens

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20 25 30

Lys Ala

<210> 22  
<211> 34  
<212> PRT  
<213> Homo sapiens

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Arg Gly

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Ala Leu Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile  
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Lys Gly

<210> 24  
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Lys Ala

<210> 25  
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<213> Homo sapiens

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Ala Val Ala Tyr Tyr Lys Lys Ala Leu Glu Leu Asp Pro Asp Asn Glu  
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Thr Tyr

<210> 26  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
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Ser Tyr

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Ala Leu Glu Ala Tyr Lys Lys Val Leu Asp Ile Glu Gly Asp Asn Ala  
20 25 30

Thr Glu

<210> 28  
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<212> PRT  
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<223> TPR3

<400> 28

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Ala Leu Arg Asp Tyr Glu Thr Val Val Lys Val Lys Pro His Asp Lys  
20 25 30

Asp Ala

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<211> 34

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<223> TPR3

<400> 29

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Ala Leu Ala Asp Leu Lys Lys Ala Gln Gly Ile Ala Pro Glu Asp Lys  
20 25 30

Ala Ile